AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended)   A system for remotely displaying a medical image, said system including:

a medical imaging system transmitting unprocessed medical imaging data to a remote terminal; and

a remote terminal for receiving said unprocessed medical imaging data, processing said unprocessed medical imaging data according to preferences and control of an operator at said remote terminal, scan converting said processed image data into pixel image data to form a medical image and displaying said medical image at said remote terminal,

wherein said remote terminal sends commands to said medical imaging system to affect operation of said medical imaging system to acquire and process medical imaging data.

2. (Original)   The system of claim 1 wherein said remote terminal performs post-processing on said unprocessed medical image data.

3. (Original)   The system of claim 1 wherein said medical imaging system acquired said unprocessed medical imaging data.

4. (Cancelled).

5. (Original)   The system of claim 1 wherein said medical imaging system also transmits audio data to said remote terminal.

6. (Original)   The system of claim 1 wherein said medical imaging system also transmits system parameter data to said remote terminal.

7-15. (Cancelled).

16. (Currently Amended)   A system for remotely post-processing medical imaging data, said system including:

a remote terminal receiving unprocessed medical information imaging data, said remote terminal including a remote imaging processor receiving said unprocessed medical information imaging data and post-processing said medical imaging data, said remote terminal processing said unprocessed medical information imaging data according to imaging parameters, said imaging parameters controlled by an operator at said remote terminal,

wherein said remote terminal scan converts said processed medical imaging data into pixel image data to form a medical image and displays said medical image at said remote terminal.

17. (Original) The system of claim 16 wherein said unprocessed medical imaging data is sent by a medical imaging system to said remote terminal.

18-19. (Canceled).

20. (Currently Amended) A remote terminal for use in a medical imaging system for remotely displaying a medical image, said remote terminal including:

a remote data processor receiving unprocessed medical imaging data and pre-processing said unprocessed medical imaging data according to preferences and control of an operator at said remote terminal;

a remote imaging processor post-processing said pre-processed medical imaging data and scan converting said post-processed medical imaging data into pixel image data to form a medical image according to preferences and control of said operator at said remote terminal;

remote console controls controlling imaging parameters at said remote imaging processor and relaying commands relating to acquisition and processing of medical imaging data through said remote data processor to an imaging system; and

a display for displaying said medical image.

21-27. (Cancelled).

28. (Currently Amended)   A method for remotely displaying a medical image, said method including the steps of:

transmitting unprocessed medical imaging data from a medical imaging system to a remote terminal;

processing said unprocessed medical imaging data at said remote terminal according to preferences and control of an operator at said remote terminal;

scan converting said processed medical imaging data into pixel image data to form a medical image according to preferences and control of said operator at said remote terminal;

sending commands related to image data processing from said remote terminal to said medical imaging system; and

displaying said medical image.

29. (Original) The method of claim 28 further including the step of post-processing said unprocessed medical image data at said remote terminal.

30. (Original) The method of claim 28 further including the step of acquiring said unprocessed medical imaging data at said medical imaging system.

31. (Cancelled).

32. (Original) The method of claim 28 further including the step of transmitting audio data from said medical imaging system to said remote terminal.

33. (Original) The method of claim 28 further including the step of transmitting system parameter data from said medical imaging system to said remote terminal.

34-42. (Cancelled).

43. (Currently Amended)   A method for remotely post-processing medical imaging data, said method including the steps of:

receiving unprocessed medical imaging data at a remote terminal; and

post-processing said <u>unprocessed</u> medical imaging data,

processing said unprocessed medical imaging data at said remote terminal <u>according to preferences and control of an operator at said remote terminal;</u>

scan converting said processed medical imaging data into pixel image data to form a medical image according to preferences and control of said operator at said remote terminal;

wherein said remote terminal processes said unprocessed medical information data according to imaging parameters and wherein said imaging parameters are controlled by an operator at said remote terminal and reflect operator preferences for image processing.

44. (Original) The method of claim 43 wherein said unprocessed medical imaging data is sent by a medical imaging system to said remote terminal.

45-53. (Cancelled).

54. (New) The system of claim 1 wherein said commands sent from said remote terminal to said medical imaging system control at least one of pre-processing functions and post-processing functions of said medical imaging system.

55. (New) The system of claim 1 wherein said operator at said remote terminal has the same control of said medical imaging system as a user at said medical imaging system.